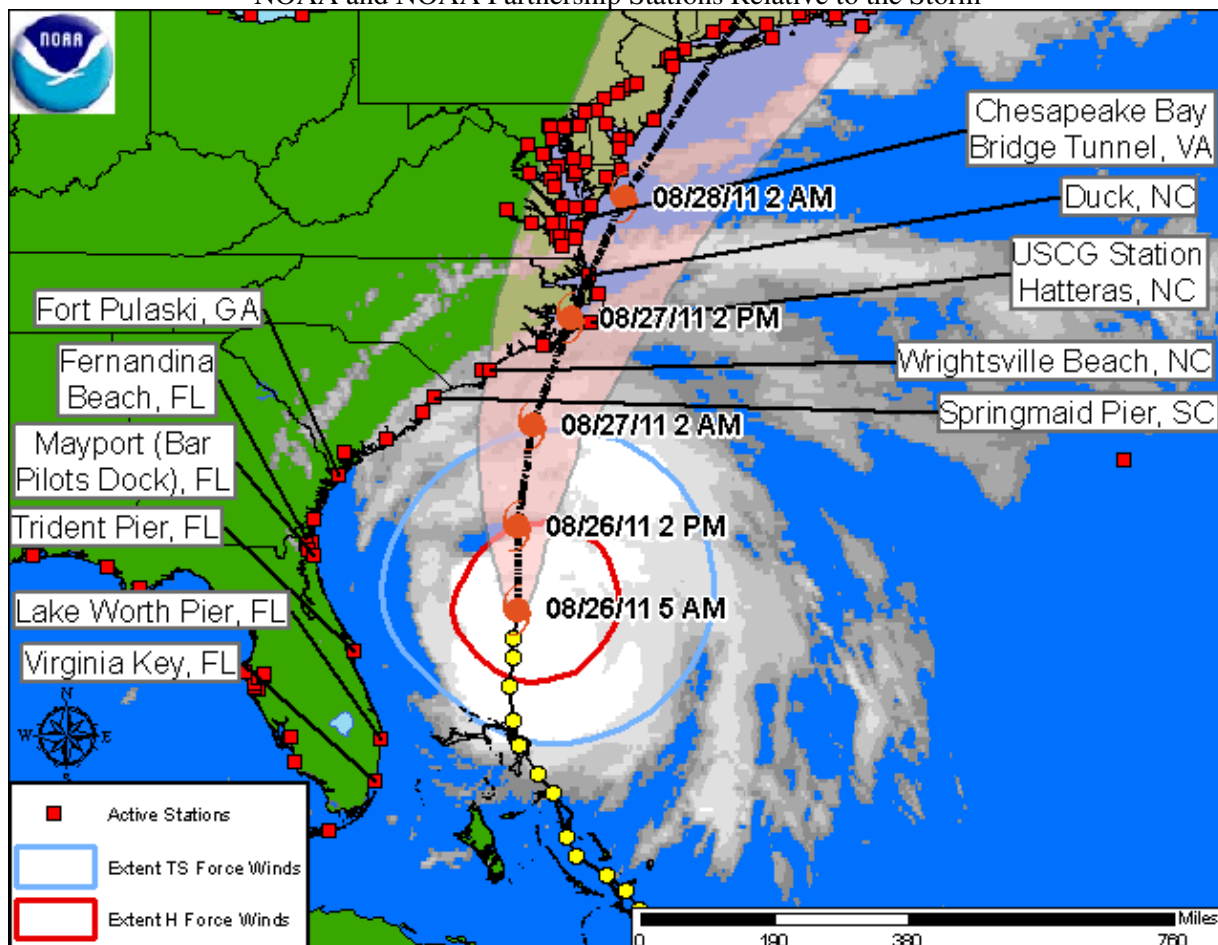




Hurricane IRENE QuickLook
Posted: 06:00 EDT 08/26/2011

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 08/26/2011 06:00 EDT, water levels at stations from the eastern shore of Florida to Georgia are elevated between 0.7 and 1.2 ft above predicted. Stations in the Carolinas and northward are at or near predicted levels. Winds are generally at or below 20 knots, however gusts up to 45 knots have been observed at Lake Worth Pier, FL and Mayport, FL. Barometric pressure continues to fall across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Virginia Key, FL Next predicted high tides are 2.24 ft (0.68 m) at 08/26/2010 07:09 EDT and 2.37 ft (0.72 m) at 08/26/2010 19:45 EDT.

Lake Worth Pier, FL Next predicted high tides are 3.12 ft (0.95 m) at 08/26/2010 18:39 EDT and 3.14 ft (0.96 m) at 08/27/2010 06:53 EDT.

Hurricane IRENE QuickLook, POSTED 06:00 EDT 08/26/2011

Trident Pier, FL Next predicted high tides are 4.29 ft (1.31 m) at 08/26/2010 18:19 EDT and 3.67 ft (1.12 m) at 08/27/2010 06:34 EDT.

Fernandina Beach, FL: Next predicted high tides are 5.87 ft (1.79 m) at 08/26/2011 06:51 EDT and 6.99 ft (2.13 m) at 08/26/2011 19:25 EDT.

Mayport, FL Next predicted high tides are 4.57 ft (1.39 m) at 08/26/2010 06:38 EDT and 5.39 ft (1.64 m) at 08/26/2010 19:09 EDT.

Fort Pulaski, GA Next predicted high tides are 6.74 ft (2.05 m) at 08/26/2010 06:06 EDT and 8.04 ft (2.45 m) at 08/26/2010 18:35 EDT.

Springmaid Pier, SC Next predicted high tides are 6.02 ft (1.83 m) at 08/26/2010 17:50 EDT and 5.33 ft (1.62 m) at 08/27/2010 06:21 EDT.

Wrightsville Beach, NC Next predicted high tides are 4.74 ft (1.44 m) at 08/26/2010 17:57 EDT and 4.16 ft (1.27 m) at 08/27/2010 06:20 EDT.

USCG Station Hatteras, NC Next predicted high tides are 0.58 ft (0.18 m) at 08/26/2010 07:03 EDT and 0.55 ft (0.17 m) at 08/26/2010 19:26 EDT.

Duck, NC Next predicted high tides are 3.99 ft (1.22 m) at 08/26/2010 17:54 EDT and 3.49 ft (1.06 m) at 08/27/2010 06:22 EDT.

Chesapeake Bay Bridge Tunnel, VA Next predicted high tides are 2.57 ft (0.78 m) at 08/26/2010 06:19 EDT and 3.12 ft (0.95 m) at 08/26/2010 18:47 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For information on Highest Astronomical Tide (HAT), NAVD88 and other datums, please see [Tidal Datums](#). For more information or archived products and reports, please see the [Storm QuickLook](#) Homepage.

Analyst:MPM

SELECT [NATIONAL HURRICANE CENTER](#) ADVISORY INFORMATION:

HURRICANE IRENE ADVISORY NUMBER 24

...IRENE SLIGHTLY WEAKER...WARNINGS AND WATCHES EXTENDED NORTHWARD ALONG THE U. S. EAST COAST...

HURRICANE IRENE WAS LOCATED NEAR LATITUDE 29.3 NORTH...LONGITUDE 77.2 WEST ABOUT 420 MI OF CAPE HATTERAS NORTH CAROLINA

WATCHES AND WARNINGS

A HURRICANE WARNING IS IN EFFECT FOR...

* LITTLE RIVER INLET NORTH CAROLINA NORTHWARD TO SANDY HOOK NEW JERSEY...INCLUDING THE PAMLICO...ALBEMARLE...AND CURRITUCK SOUNDS...DELAWARE BAY...AND CHESAPEAKE BAY SOUTH OF SMITH POINT.

A HURRICANE WATCH IS IN EFFECT FOR...

* NORTH OF SANDY HOOK TO THE MOUTH OF THE MERRIMACK RIVER...INCLUDING LONG ISLAND...LONG ISLAND SOUND...BLOCK ISLAND...MARTHAS VINEYARD AND NANTUCKET.

A TROPICAL STORM WARNING IS IN EFFECT FOR...

* NORTH OF EDISTO BEACH SOUTH CAROLINA TO LITTLE RIVER INLET
* CHESAPEAKE BAY FROM SMITH POINT NORTHWARD AND THE TIDAL POTOMAC

A HURRICANE WARNING MEANS THAT HURRICANE CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA. A WARNING IS TYPICALLY ISSUED 36 HOURS BEFORE THE ANTICIPATED FIRST OCCURRENCE OF TROPICAL-STORM-FORCE WINDS...CONDITIONS THAT MAKE OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS. PREPARATIONS TO PROTECT LIFE AND PROPERTY SHOULD BE RUSHED TO COMPLETION.

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA WITHIN 36 HOURS.

A HURRICANE WATCH MEANS THAT HURRICANE CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA. A WATCH IS TYPICALLY ISSUED 48 HOURS BEFORE THE ANTICIPATED FIRST OCCURRENCE OF TROPICAL-STORM-FORCE WINDS...CONDITIONS THAT MAKE OUTSIDE PREPARATIONS DIFFICULT OR DANGEROUS.

INTERESTS ELSEWHERE IN NEW ENGLAND SHOULD MONITOR THE PROGRESS OF IRENE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 500 AM EDT THE CENTER OF HURRICANE IRENE WAS LOCATED NEAR LATITUDE 29.3 NORTH...LONGITUDE 77.2 WEST ABOUT 420 MI OF CAPE HATTERAS NORTH CAROLINA. IRENE IS MOVING TOWARD THE NORTH NEAR 14 MPH AND THIS MOTION IS EXPECTED TO CONTINUE DURING THE NEXT 24 HOURS. A GRADUAL TURN TOWARD THE NORTH-NORTHEAST SHOULD BEGIN THEREAFTER. ON THE FORECAST TRACK...THE CORE OF THE HURRICANE WILL PASS WELL OFF THE COAST OF NORTHEASTERN FLORIDA TODAY...APPROACH THE COAST OF NORTH CAROLINA TONIGHT...AND PASS NEAR OR OVER THE NORTH CAROLINA COAST SATURDAY.

REPORTS FROM AN AIR FORCE RESERVE HURRICANE HUNTER AIRCRAFT INDICATE THAT MAXIMUM SUSTAINED WINDS ARE NOW NEAR 110 MPH WITH HIGHER GUSTS. IRENE IS A CATEGORY TWO HURRICANE ON THE SAFFIR-SIMPSON HURRICANE WIND SCALE. SOME RE-INTENSIFICATION IS POSSIBLE TODAY...AND IRENE IS EXPECTED TO BE NEAR THE THRESHOLD BETWEEN CATEGORY TWO AND THREE AS IT REACHES THE NORTH CAROLINA COAST.

IRENE IS A LARGE TROPICAL CYCLONE. HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 90 MILES FROM THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 290 MILES. NOAA BUOY 41010 LOCATED ABOUT 140 MILES EAST OF CAPE CANAVERAL FLORIDA RECENTLY REPORTED A SUSTAINED WIND OF 56 MPH AND A WIND GUST OF 74 MPH.

THE MINIMUM CENTRAL PRESSURE ESTIMATED FROM HURRICANE HUNTER AIRCRAFT DATA IS 942 MB...27.82 INCHES.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM CONDITIONS ARE SUBSIDING OVER THE NORTHWESTERN BAHAMAS. TROPICAL STORM FORCE WINDS ARE EXPECTED WITHIN THE SOUTHERN PORTION OF THE WARNING AREA ALONG THE UNITED STATES EAST COAST BY LATE TODAY. HURRICANE FORCE WINDS ARE EXPECTED TO FIRST REACH THE HURRICANE WARNING AREA TONIGHT OR SATURDAY MORNING.

STORM SURGE...AN EXTREMELY DANGEROUS STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 6 TO 11 FEET ABOVE GROUND LEVEL IN THE HURRICANE WARNING AREA IN NORTH CAROLINA...INCLUDING THE ALBEMARLE AND PAMLICO SOUNDS. STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 4 TO 8 FEET ABOVE GROUND LEVEL OVER SOUTHERN PORTIONS OF THE CHESAPEAKE BAY...INCLUDING TRIBUTARIES...AND THE EASTERN SHORE OF THE DELMARVA PENINSULA. STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 3 TO 6 FEET ABOVE GROUND LEVEL ALONG THE JERSEY SHORE. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY LARGE... DESTRUCTIVE...AND LIFE-THREATENING WAVES.

SURF...SWELLS GENERATED BY IRENE ARE AFFECTING PORTIONS OF THE COAST OF THE SOUTHEASTERN UNITED STATES. THESE SWELLS WILL CAUSE LIFE-THREATENING SURF AND RIP CURRENT CONDITIONS.

FORECASTER BEVEN

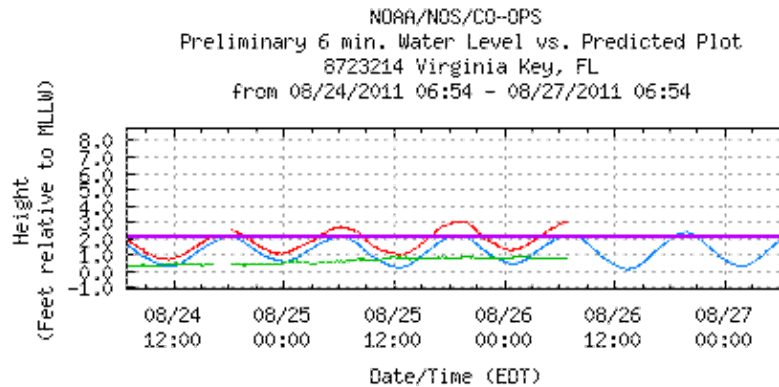
For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Virginia Key - Water Level](#), [Virginia Key - Winds](#), [Virginia Key - Barometric](#), [Virginia Key - Air/Water Temp](#), [Lake Worth Pier - Water Level](#), [Lake Worth Pier - Winds](#), [Lake Worth Pier - Barometric](#), [Lake Worth Pier - Air/Water Temp](#), [Trident Pier - Water Level](#), [Trident Pier - Winds](#), [Trident Pier - Air/Water Temp](#), [Mayport \(Bar Pilots Dock\) - Water Level](#), [Mayport \(Bar Pilots Dock\) - Winds](#), [Mayport \(Bar Pilots Dock\) - Barometric](#), [Mayport \(Bar Pilots Dock\) - Air/Water Temp](#), [Fernandina Beach - Water Level](#), [Fernandina Beach - Winds](#), [Fernandina Beach - Barometric](#), [Fernandina Beach - Air/Water Temp](#), [Fort Pulaski - Water Level](#), [Fort Pulaski - Winds](#), [Fort Pulaski - Barometric](#), [Fort Pulaski - Air/Water Temp](#), [Springmaid Pier - Water Level](#), [Springmaid Pier - Winds](#), [Springmaid Pier - Barometric](#), [Wrightsville Beach -](#)

Hurricane IRENE QuickLook, POSTED 06:00 EDT 08/26/2011

Water Level, Wrightsville Beach - Winds, Wrightsville Beach - Barometric, USCG Station Hatteras - Water Level, USCG Station Hatteras - Winds, USCG Station Hatteras - Barometric, Duck - Water Level, Duck - Winds, Duck - Barometric, Chesapeake Bay Bridge Tunnel - Water Level, Chesapeake Bay Bridge Tunnel - Winds, Chesapeake Bay Bridge Tunnel - Barometric,

Virginia Key, FL - Return to List



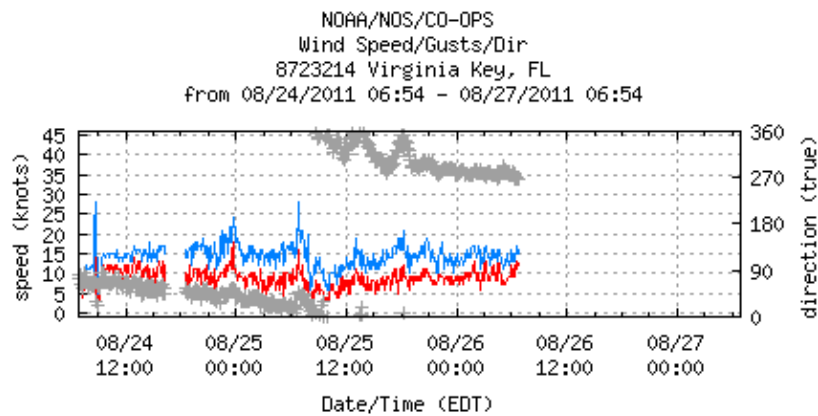
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/26/2011 06:42 (EDT)

Relative to MLLW: **Observed: 2.99 ft.** **Predicted: 2.21 ft.** **Residual: 0.78 ft.**

Historical Maximum Water Level: Oct 24 2005, 2.58 ft. above MHHW

Virginia Key, FL - Return to List

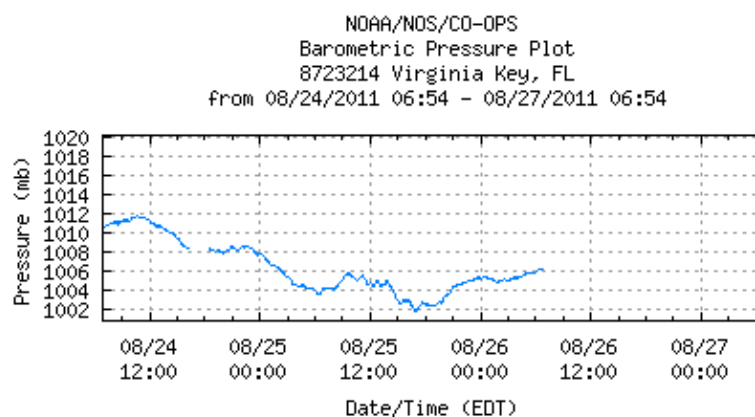


speed — gusts — direction +

Last Observed Sample: 08/26/2011 06:42 (EDT)

Wind Speed: 12 knots **Gusts: 15 knots** **Direction: 266° T**

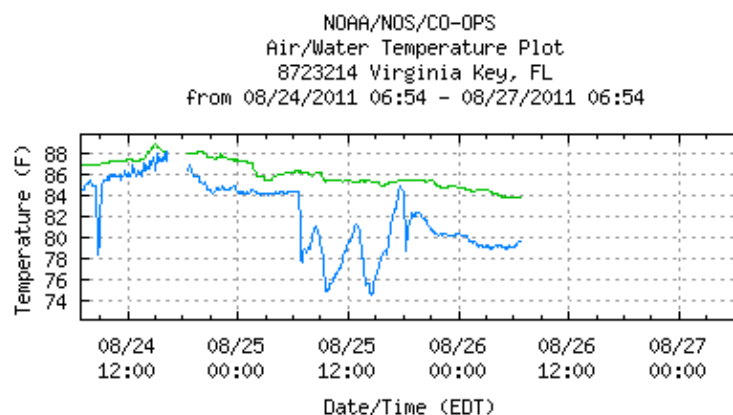
Virginia Key, FL - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Barometric Pressure: 1006.1 mb

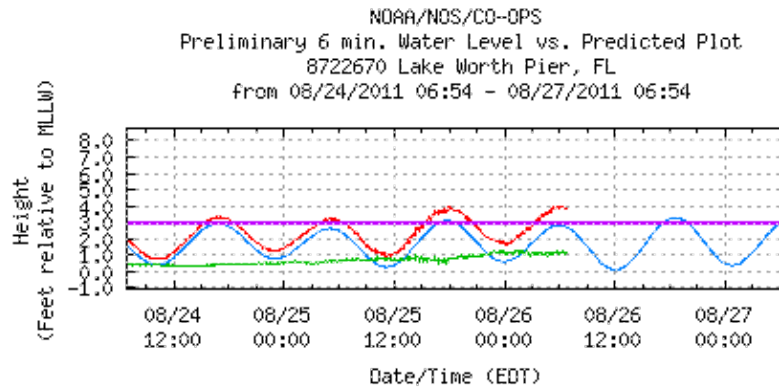
Virginia Key, FL - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Water Temperature: 83.8° F Air Temperature: 79.7° F

Lake Worth Pier, FL - Return to List



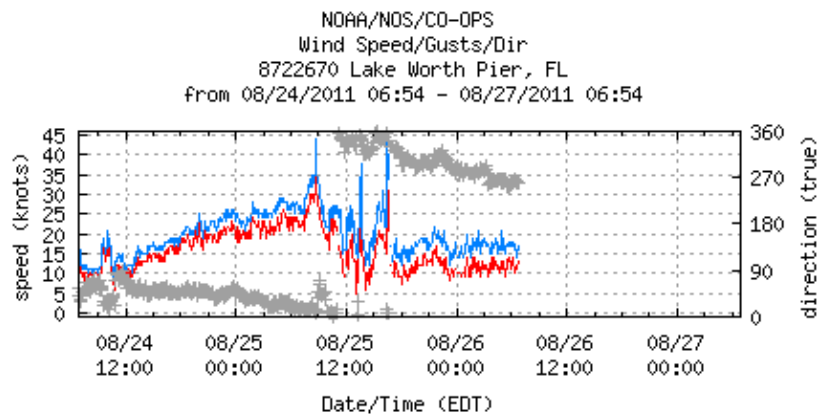
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/26/2011 06:42 (EDT)

Relative to MLLW: **Observed: 3.84 ft.** **Predicted: 2.71 ft.** **Residual: 1.13 ft.**

Historical Maximum Water Level: Nov 23 1984, 1.88 ft. above MHHW

Lake Worth Pier, FL - Return to List

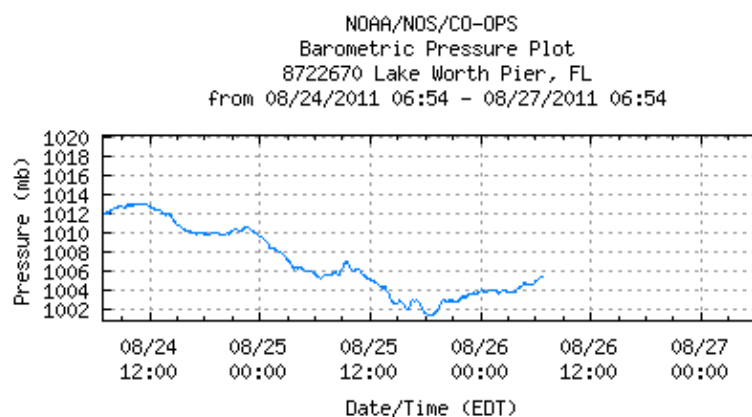


speed — gusts — direction +

Last Observed Sample: 08/26/2011 06:42 (EDT)

Wind Speed: 13 knots **Gusts: 17 knots** **Direction: 260° T**

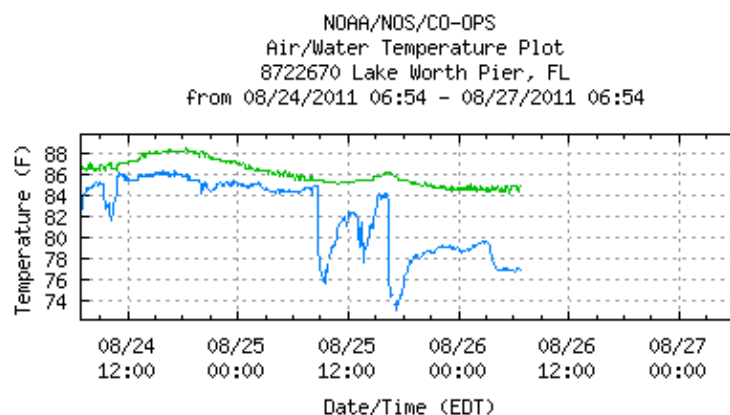
[Lake Worth Pier, FL - Return to List](#)



Last Observed Sample: 08/26/2011 06:42 (EDT)

Barometric Pressure: 1005.4 mb

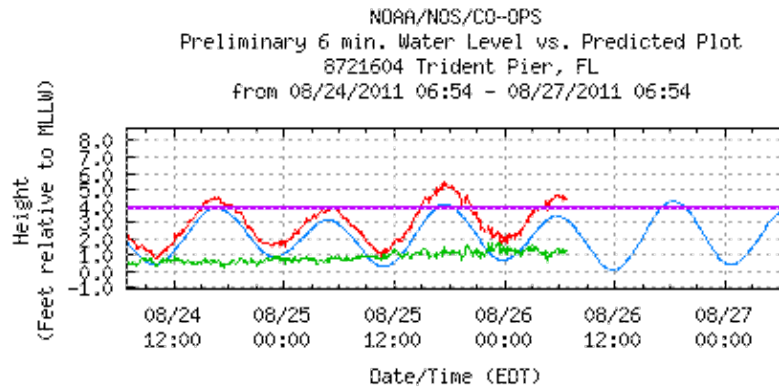
[Lake Worth Pier, FL - Return to List](#)



Last Observed Sample: 08/26/2011 06:42 (EDT)

Water Temperature: 84.9° F Air Temperature: 77.0° F

Trident Pier, FL - Return to List



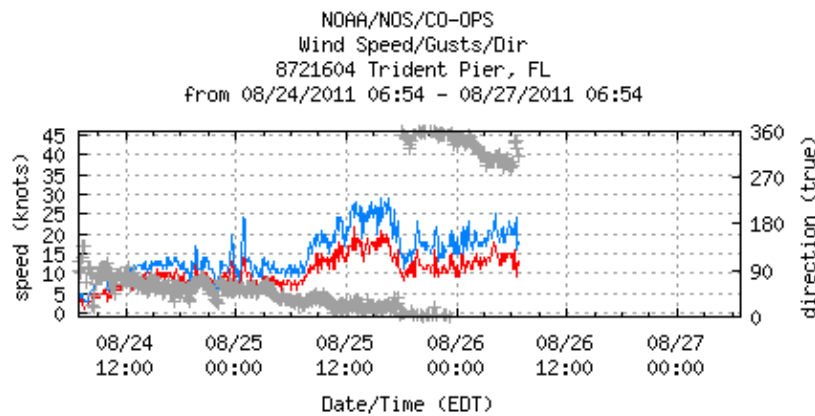
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/26/2011 06:42 (EDT)

Relative to MLLW: **Observed: 4.46 ft.** **Predicted: 3.16 ft.** **Residual: 1.30 ft.**

Historical Maximum Water Level: Sep 26 2004, 4.01 ft. above MHHW

Trident Pier, FL - Return to List

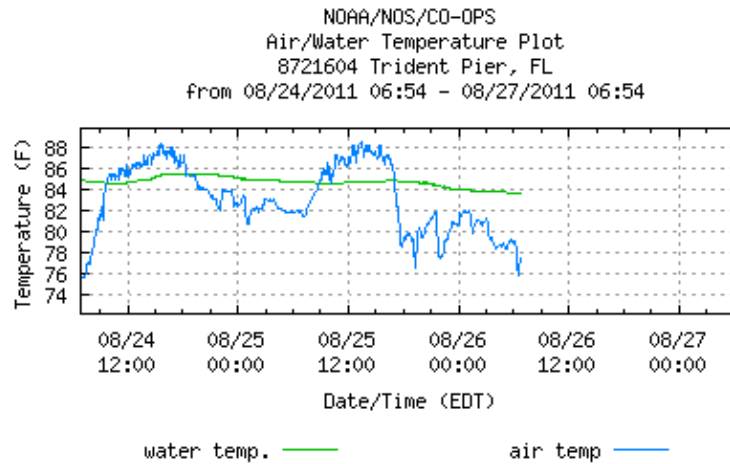


speed — gusts — direction +

Last Observed Sample: 08/26/2011 06:42 (EDT)

Wind Speed: 13 knots **Gusts: 18 knots** **Direction: 310° T**

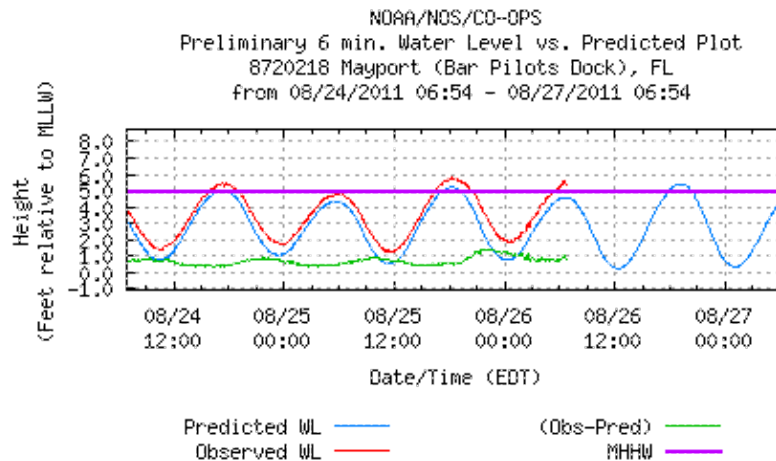
Trident Pier, FL - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Water Temperature: 83.7° F Air Temperature: 77.5° F

Mayport (Bar Pilots Dock), FL - Return to List

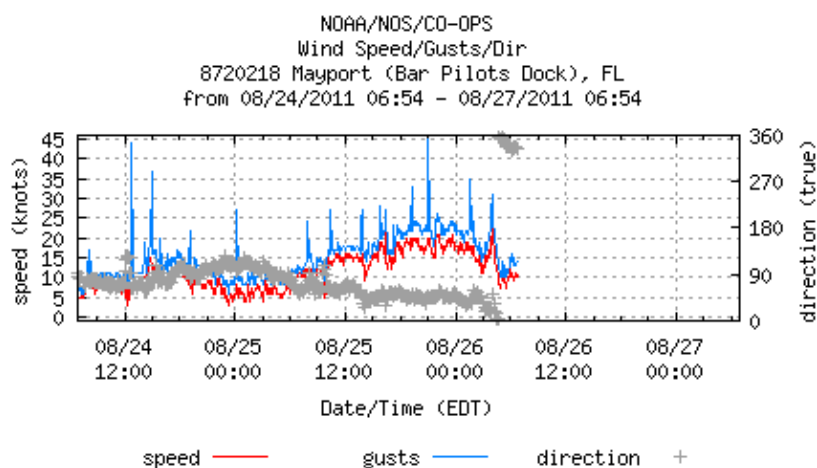


Last Observed Sample: 08/26/2011 06:42 (EDT)

Relative to MLLW: Observed: 5.36 ft. Predicted: 4.56 ft. Residual: 0.80 ft.

Historical Maximum Water Level: Sep 27 2004, 2.47 ft. above MHHW

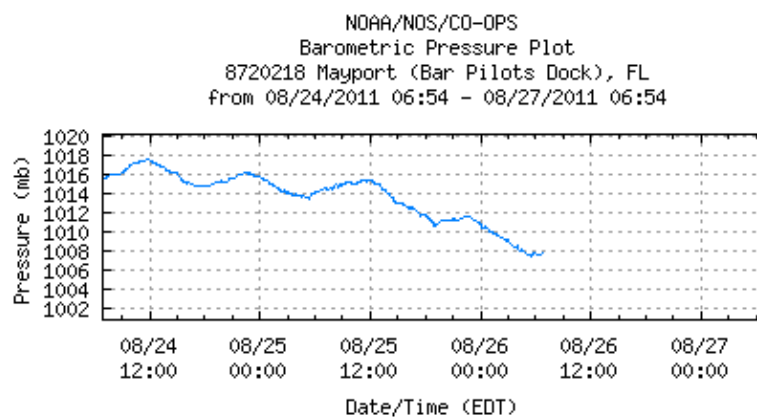
Mayport (Bar Pilots Dock), FL - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Wind Speed: 10 knots Gusts: 14 knots Direction: 334° T

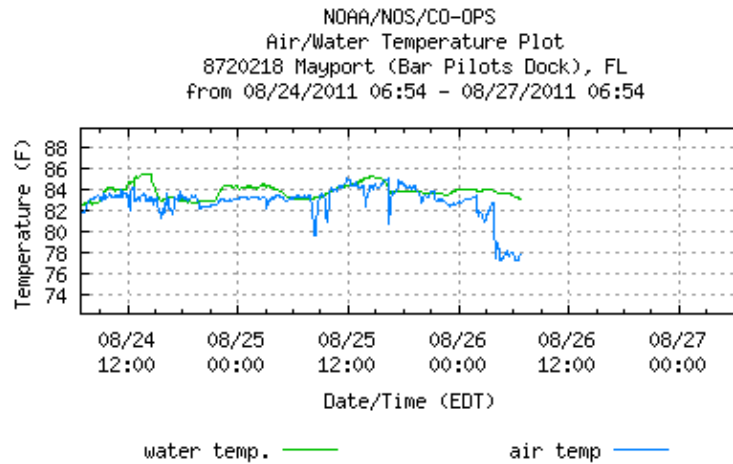
Mayport (Bar Pilots Dock), FL - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Barometric Pressure: 1007.7 mb

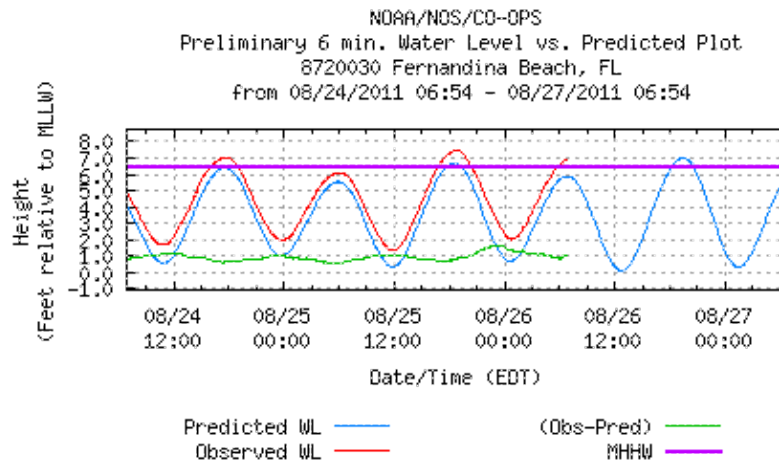
Mayport (Bar Pilots Dock), FL - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Water Temperature: 83.1° F Air Temperature: 77.9° F

Fernandina Beach, FL - Return to List

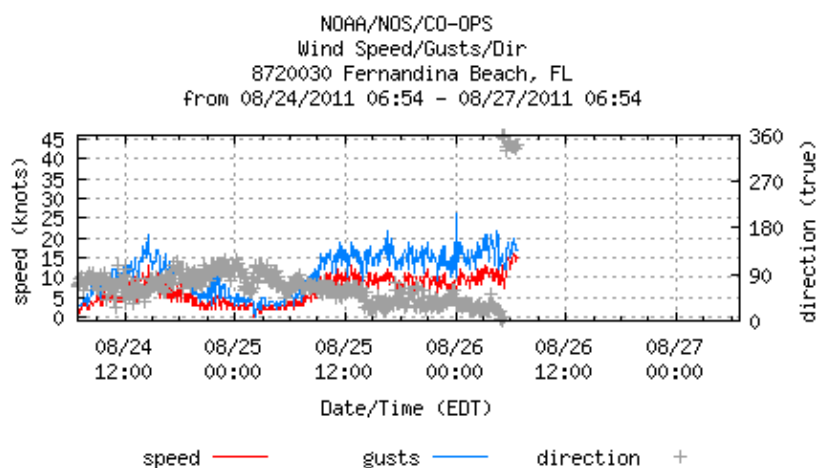


Last Observed Sample: 08/26/2011 06:42 (EDT)

Relative to MLLW: Observed: 6.85 ft. Predicted: 5.86 ft. Residual: 0.99 ft.

Historical Maximum Water Level: Oct 2 1898, 6.94 ft. above MHHW

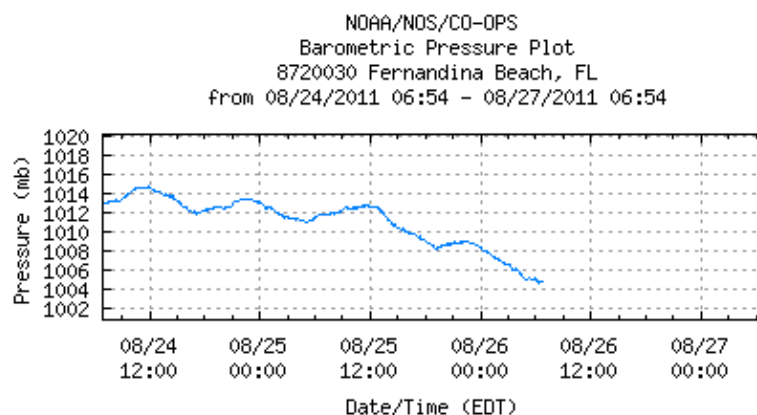
Fernandina Beach, FL - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Wind Speed: 15 knots Gusts: 17 knots Direction: 342° T

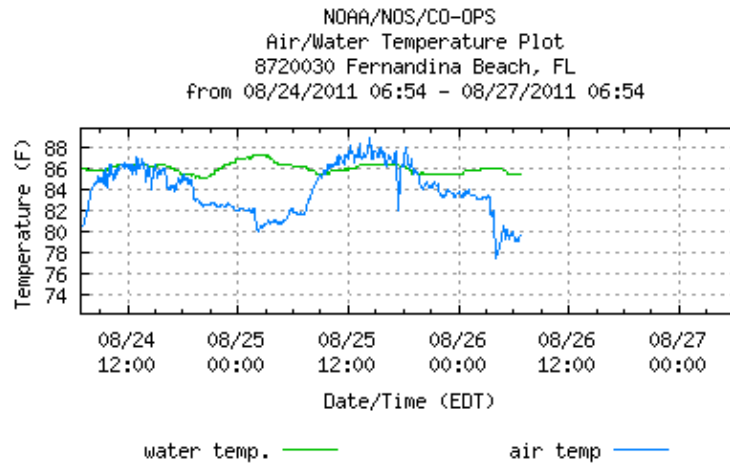
Fernandina Beach, FL - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Barometric Pressure: 1004.8 mb

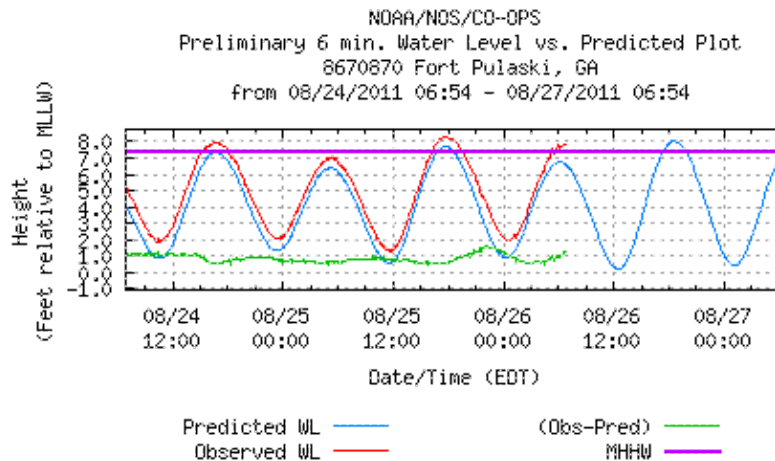
Fernandina Beach, FL - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Water Temperature: 85.5° F Air Temperature: 79.7° F

Fort Pulaski, GA - Return to List

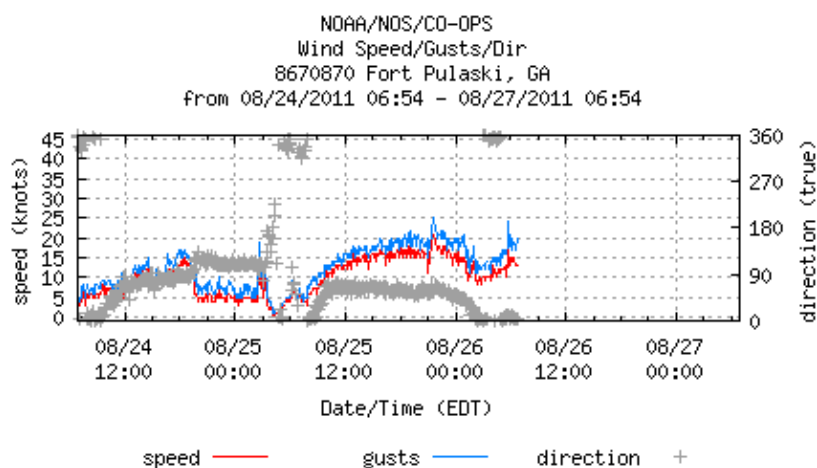


Last Observed Sample: 08/26/2011 06:42 (EDT)

Relative to MLLW: Observed: 7.83 ft. Predicted: 6.61 ft. Residual: 1.22 ft.

Historical Maximum Water Level: Oct 15 1947, 3.4 ft. above MHHW

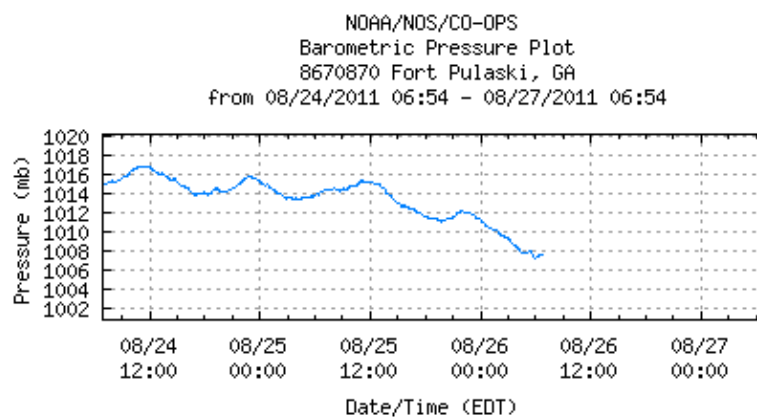
Fort Pulaski, GA - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Wind Speed: 13 knots Gusts: 20 knots Direction: 3° T

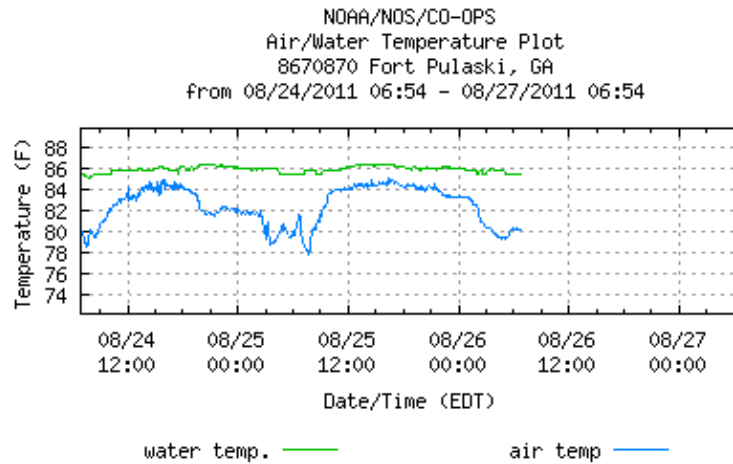
Fort Pulaski, GA - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Barometric Pressure: 1007.5 mb

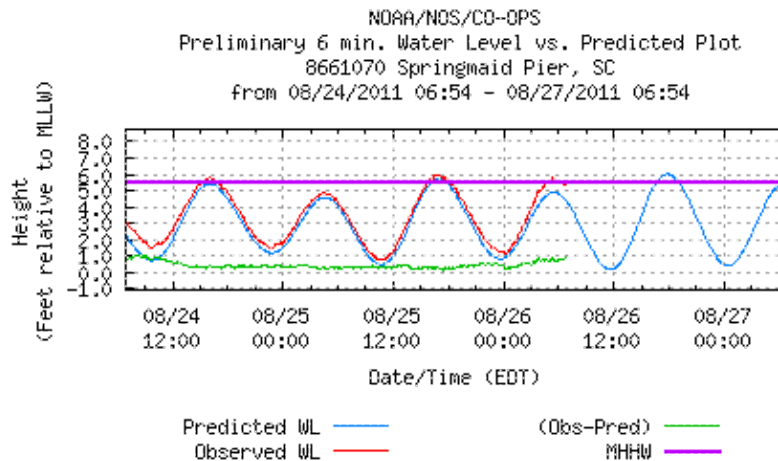
Fort Pulaski, GA - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Water Temperature: 85.5° F Air Temperature: 80.2° F

Springmaid Pier, SC - Return to List

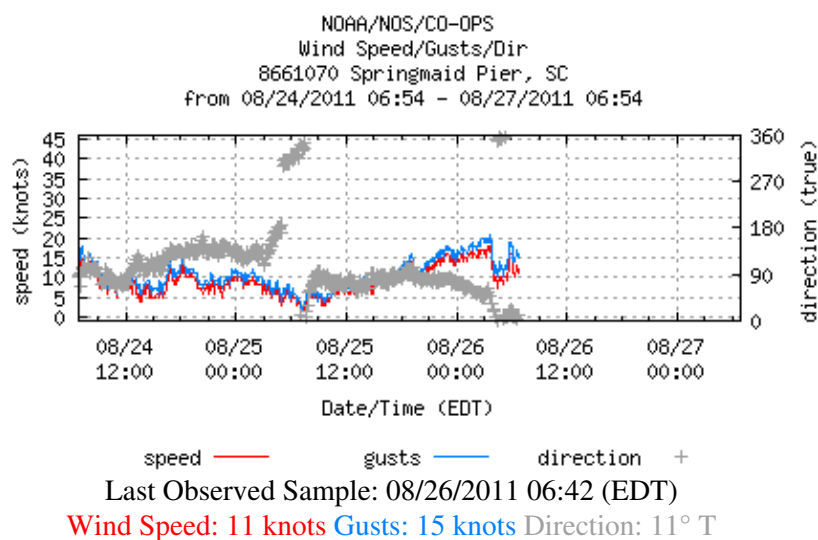


Last Observed Sample: 08/26/2011 06:42 (EDT)

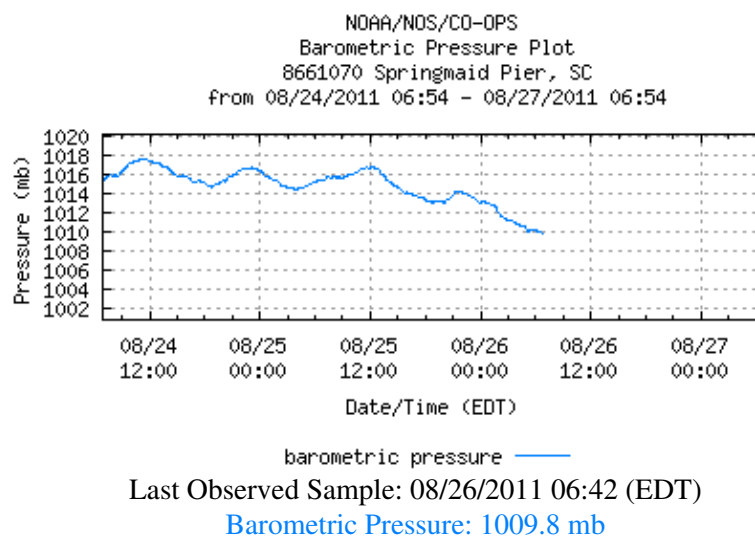
Relative to MLLW: Observed: 5.37 ft. Predicted: 4.46 ft. Residual: 0.91 ft.

Historical Maximum Water Level: Jan 1 1987, 3.65 ft. above MHHW

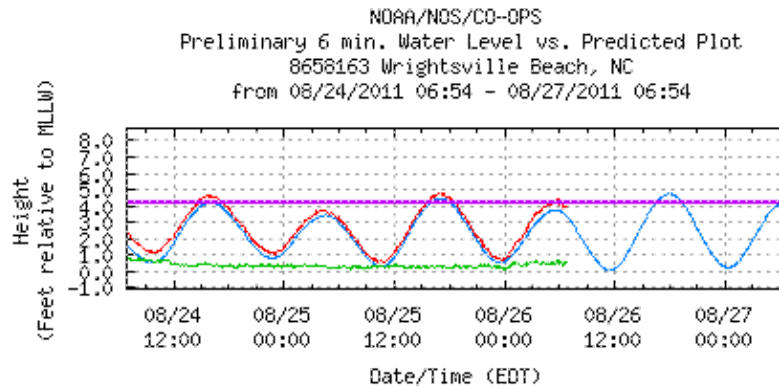
[Springmaid Pier, SC - Return to List](#)



[Springmaid Pier, SC - Return to List](#)



Wrightsville Beach, NC - Return to List



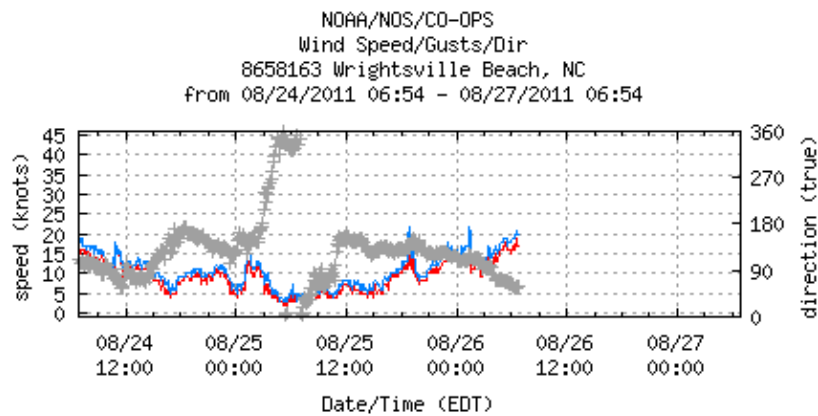
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/26/2011 06:42 (EDT)

Relative to MLLW: **Observed: 3.95 ft.** **Predicted: 3.39 ft.** **Residual: 0.56 ft.**

Historical Maximum Water Level: Sep 25 2008, 2.81 ft. above MHHW

Wrightsville Beach, NC - Return to List

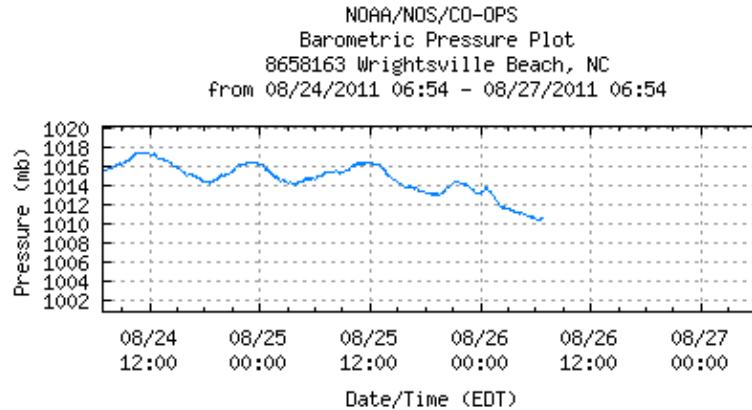


speed — gusts — direction +

Last Observed Sample: 08/26/2011 06:42 (EDT)

Wind Speed: 17 knots **Gusts: 20 knots** **Direction: 61° T**

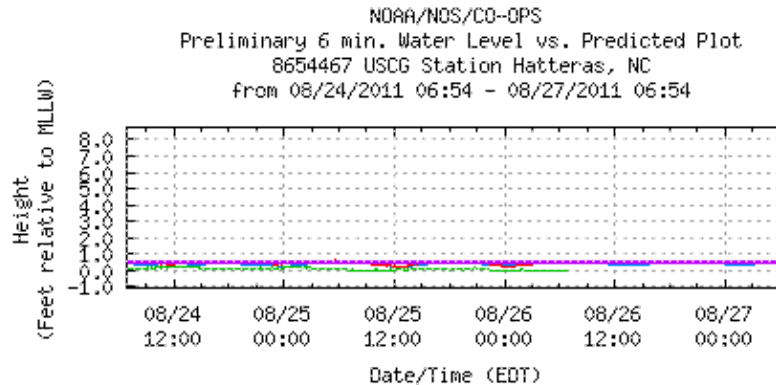
Wrightsville Beach, NC - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Barometric Pressure: 1010.5 mb

USCG Station Hatteras, NC - Return to List

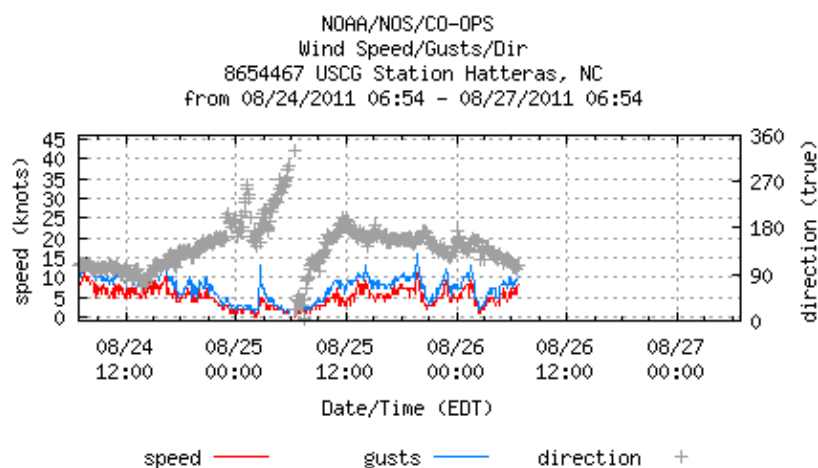


Last Observed Sample: 08/26/2011 06:42 (EDT)

Relative to MLLW: **Observed: 0.51 ft.** **Predicted: 0.58 ft.** **Residual: -0.07 ft.**

Historical Maximum Water Level: , 0 ft. above MHHW

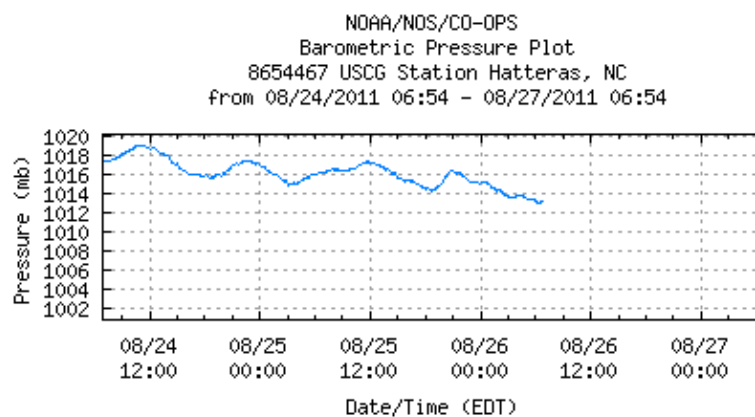
[USCG Station Hatteras, NC - Return to List](#)



Last Observed Sample: 08/26/2011 06:42 (EDT)

Wind Speed: 8 knots Gusts: 10 knots Direction: 107° T

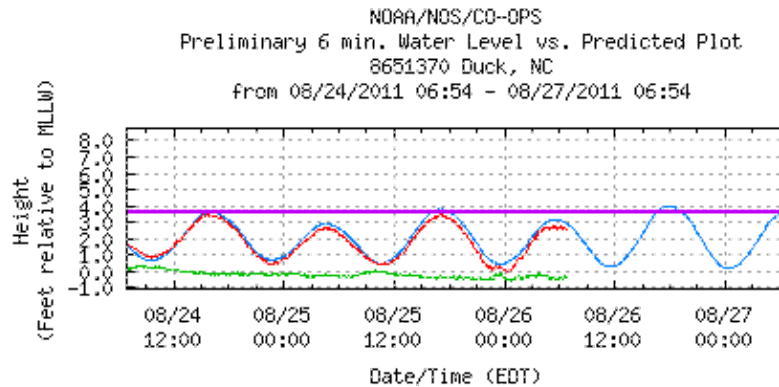
[USCG Station Hatteras, NC - Return to List](#)



Last Observed Sample: 08/26/2011 06:42 (EDT)

Barometric Pressure: 1013.2 mb

Duck, NC - Return to List

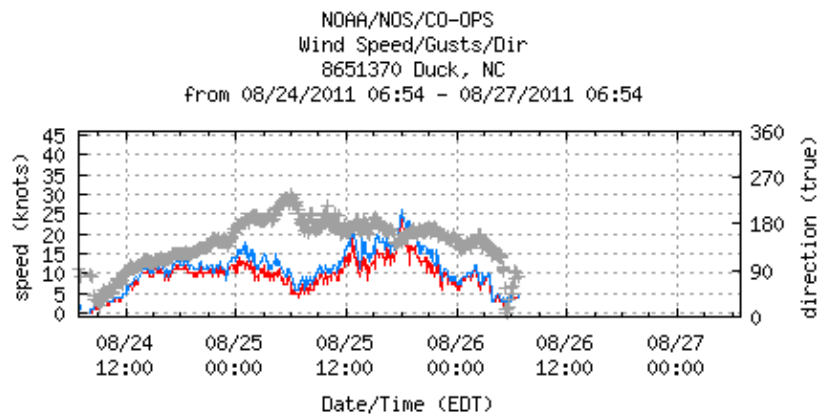


Last Observed Sample: 08/26/2011 06:42 (EDT)

Relative to MLLW: **Observed: 2.53 ft.** **Predicted: 2.93 ft.** **Residual: -0.40 ft.**

Historical Maximum Water Level: Aug 30 1999, 3.23 ft. above MHHW

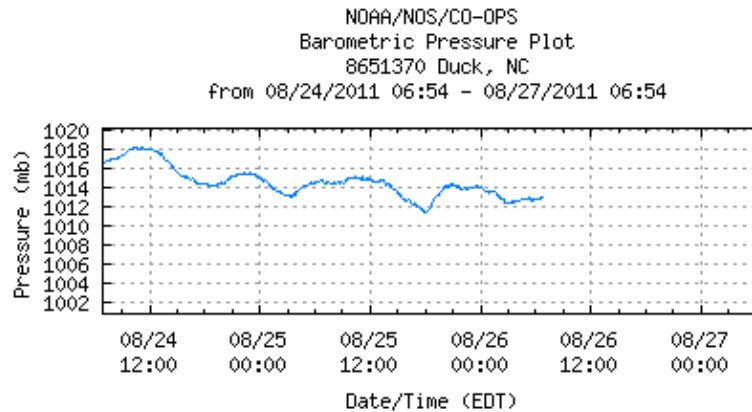
Duck, NC - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Wind Speed: 4 knots **Gusts: 4 knots** **Direction: 78° T**

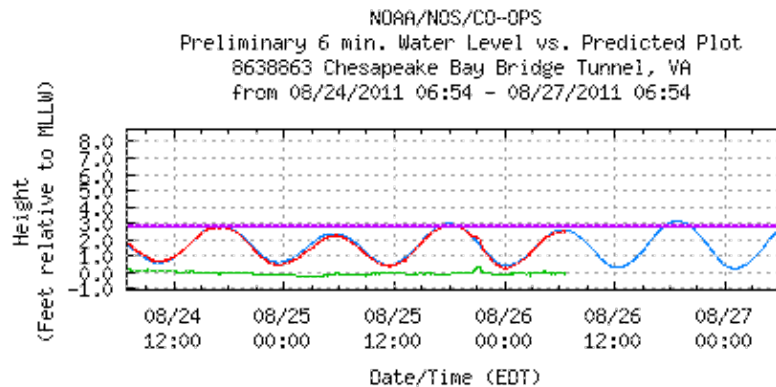
Duck, NC - Return to List



Last Observed Sample: 08/26/2011 06:42 (EDT)

Barometric Pressure: 1012.9 mb

Chesapeake Bay Bridge Tunnel, VA - Return to List

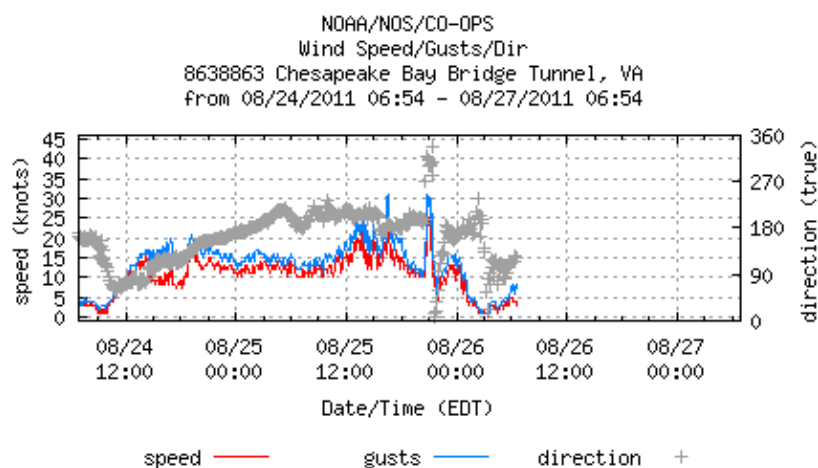


Last Observed Sample: 08/26/2011 06:36 (EDT)

Relative to MLLW: **Observed: 2.40 ft.** **Predicted: 2.56 ft.** **Residual: -0.16 ft.**

Historical Maximum Water Level: Feb 5 1998, 3.68 ft. above MHHW

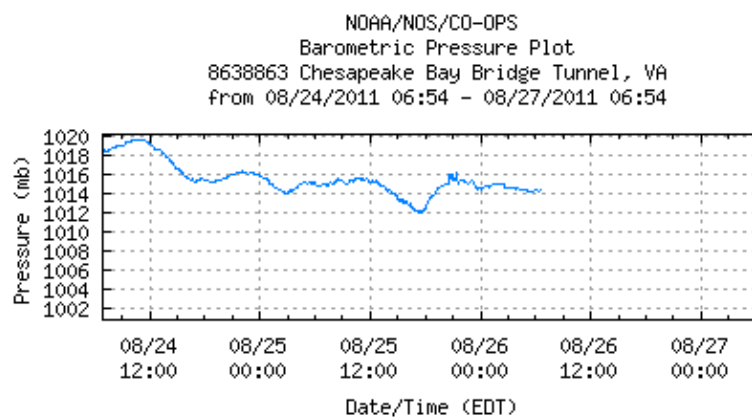
Chesapeake Bay Bridge Tunnel, VA - Return to List



Last Observed Sample: 08/26/2011 06:36 (EDT)

Wind Speed: 4 knots Gusts: 7 knots Direction: 121° T

Chesapeake Bay Bridge Tunnel, VA - Return to List



Last Observed Sample: 08/26/2011 06:36 (EDT)

Barometric Pressure: 1014.3 mb

Hurricane IRENE QuickLook, POSTED 06:00 EDT 08/26/2011

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
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